

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for PECTIN

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Abelmoschus esculentus</i>	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Abelmoschus esculentus</i>	Seed		21500.0	-0.39959623198666455	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Abrus precatorius</i>	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Actinidia chinensis</i>	Fruit	4200.0	24800.0	-0.33580681998548817	--
<i>Agave sisalana</i>	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Allium sativum</i> var. <i>sativum</i>	Fruit Essent. Oil		270000.0		LAWSON in Koch, H. P. and Lawson, L. D., eds. 1996. Garlic-The Science and therapeutic application of Allium sativum L. and related species. Williams & Wilkins, Baltimore. 329 pp.
<i>Allium cepa</i>	Bulb				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Allium sativum</i> var. <i>sativum</i>	Bulb		3000.0		--
<i>Althaea officinalis</i>	Root	110000.0	350000.0	1.9565371321871459	--
<i>Anabasis aphylla</i>	Plant				--
<i>Ananas comosus</i>	Fruit	600.0	1600.0	-0.6112516644530539	--
<i>Apium graveolens</i>	Leaf		3000.0	-1.5086314748174974	Pakistan Encyclopedia Planta Medica. 1986.
<i>Armoracia rusticana</i>	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Avena sativa</i>	Plant		800.0	-0.774079561685048	Wealth of India.
<i>Berberis vulgaris</i>	Fruit				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Bixa orellana	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Brassica oleracea var. capitata L.	Leaf		45700.0	0.25679811036022554	Wealth of India.
Camellia japonica	Flower				Wealth of India.
Carica papaya	Fruit				Jim Duke's personal files.
Castanea sativa	Leaf				--
Centaurea calcitrapa	Plant				--
Centella asiatica	Leaf	6420.0	60000.0	0.848030969096559	--
Ceratonia siliqua	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Cichorium intybus	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Citrullus lanatus	Fruit				--
Citrus aurantium	Pericarp				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Citrus sinensis	Fruit	1300.0	5900.0	-0.5601993872457034	--
Citrus limon	Pericarp				--
Citrus aurantium	Plant				--
Citrus sinensis	Pericarp				Jim Duke's personal files.
Citrus mitis	Fruit				Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Citrus limon	Exocarp				Jim Duke's personal files.
Citrus paradisi	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cocos nucifera	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Coffea arabica	Seed				--
Coriandrum sativum	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Crataegus laevigata	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Crataegus rhipidophylla	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Crotalaria juncea	Stem		64100.0		--
Cucurbita spp	Fruit	6000.0	94935.0	0.4968795665116123	--
Cucurbita pepo	Seed		30000.0	-0.08222588577632582	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Cydonia oblonga	Fruit				--
Cyperus rotundus	Root		37200.0	-0.9015177321410264	--
Cyphomandra betacea	Fruit				--
Daucus carota	Root	100000.0	188000.0	0.47634247738802854	--
Dianthus caryophyllus	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Eleutherococcus senticosus	Root				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Ficus carica	Leaf		48400.0	0.3684294892824703	Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
Ficus carica	Fruit	9300.0	77900.0	0.2946294404122596	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Foeniculum vulgare</i>	Seed				--
<i>Foeniculum vulgare</i>	Fruit				--
<i>Fragaria spp</i>	Fruit		5400.0	-0.5661356985488837	--
<i>Garcinia mangostana</i>	Fruit	1000.0	5000.0	-0.5708847475914279	--
<i>Gardenia jasminoides</i>	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
<i>Gentiana lutea</i>	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Glycyrrhiza glabra</i>	Root	14130.0	90000.0	-0.41908391872501777	--
<i>Glycyrrhiza glabra</i>	Shoot		58000.0	1.0	--
<i>Helianthus annuus</i>	Plant		110000.0	1.4120278901082428	Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
<i>Hibiscus sabdariffa</i>	Calyx		31900.0		--
<i>Hibiscus sabdariffa</i>	Fruit		10200.0	-0.5091471100383528	--
<i>Hippophae rhamnoides</i>	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Humulus lupulus</i>	Fruit	120000.0	140000.0	1.0319193042672525	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Hypericum perforatum</i>	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Ipomoea batatas</i>	Root		30000.0	-0.9673041612432094	--
<i>Ipomoea aquatica</i>	Plant		7600.0	-0.6379483284231947	--
<i>Juniperus communis</i>	Fruit		7000.0	-0.5471395023787067	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Kalmia latifolia</i>	Plant				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Lagenaria siceraria</i>	Fruit	8400.0	210000.0	1.863002886712494	--
<i>Limonia acidissima</i>	Fruit	30000.0	160000.0	1.2693717563944644	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
<i>Linum usitatissimum</i>	Seed	53900.0	100000.0	2.5314122594852875	--
<i>Lycopersicon esculentum</i>	Fruit	100.0	31000.0	-0.26219655982605244	--
<i>Lythrum salicaria</i>	Leaf				--
<i>Maclura pomifera</i>	Fruit		460400.0	4.835907587345186	Smith, J. L. and Perino, J. V. 1981. Osage Orange (<i>Maclura pomifera</i>): History and Economic Uses. <i>Economic Botany</i> 35(1): 24-41
<i>Malus domestica</i>	Fruit	1400.0	66585.0	0.16029071562128944	--
<i>Marrubium vulgare</i>	Plant				--
<i>Medicago sativa</i>	Plant				--
<i>Mentha x piperita</i>	Shoot		30000.0	-1.0	--
<i>Menyanthes trifoliata</i>	Root				--
<i>Momordica charantia</i>	Fruit				--
<i>Morus alba</i>	Leaf				--
<i>Musa x paradisiaca</i>	Hull Husk	3800.0	12800.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Musa x paradisiaca</i>	Fruit	7000.0	40000.0	-0.15534295636880713	--
<i>Myristica fragrans</i>	Seed	5000.0	6000.0	-0.9783303927231646	--
<i>Nicotiana tabacum</i>	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Olea europaea</i>	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Opuntia ficus-indica</i>	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Opuntia ficus-indica</i>	Stem				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Paeonia officinalis	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Panax ginseng	Plant				--
Panax quinquefolius	Plant				--
Panax ginseng	Root				--
Papaver somniferum	Latex Exudate				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Paris quadrifolia	Plant				--
Passiflora edulis	Petiole	24000.0	140000.0		Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Petasites japonicus	Root				Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
Petasites hybridus	Rhizome		18500.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Phyllanthus emblica	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Physalis peruviana	Fruit		7000.0	-0.5471395023787067	--
Physalis ixocarpa	Fruit	3.0	57.0	-0.6295711211346683	--
Physalis alkekengi	Fruit		7000.0	-0.5471395023787067	--
Phytelephas aequatorialis	Seed	900.0	7320.0	-0.9290446448410884	KOZIOL & PEDERSEN. 1993. PHYTELEPHAS AEQUATORIALIS(ARECACEAE) IN HUMAN AND ANIMAL NUTRITION. ECON. BOT. 47:401-307.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Phytelephas aequatorialis</i>	Mesocarp	6600.0	54610.0		KOZIOL & PEDERSEN. 1993. PHYTELEPHAS AEQUATORIALIS(ARECACEAE) IN HUMAN AND ANIMAL NUTRITION. ECON. BOT. 47:401-307.
<i>Picrasma excelsa</i>	Bark				--
<i>Pinus gerardiana</i>	Seed	17300.0	18700.0	-0.5041417577971291	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Pistacia vera</i>	Seed		35300.0	0.11566385950776774	--
<i>Pisum sativum</i>	Seed		25000.0	-0.2689143247235839	--
<i>Plumeria acutifolia</i>	Leaf		56000.0	0.6826511484710112	--
<i>Polygala senega</i>	Root				--
<i>Prunus domestica</i>	Fruit	8000.0	40000.0	-0.15534295636880713	--
<i>Prunus spinosa</i>	Fruit				--
<i>Psidium guajava</i>	Fruit	3000.0	16000.0	-0.44028589892146136	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Pterocarpus marsupium</i>	Wood				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Punica granatum</i>	Pericarp	20000.0	40000.0		--
<i>Punica granatum</i>	Fruit		2700.0	-0.5981917795860573	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Pyrus communis</i>	Fruit		40000.0	-0.15534295636880713	--
<i>Quercus robur</i>	Bark				--
<i>Quercus alba</i>	Bark				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Rhamnus cathartica</i>	Fruit				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Rheum officinale	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Ribes uva-crispa	Fruit				--
Ribes rubrum	Fruit		8000.0	-0.5352668797723461	--
Ribes nigrum	Fruit				--
Rosa rubiginosa	Seed		46000.0	0.5151771188549	--
Rosa canina	Fruit	26180.0	140000.0	1.0319193042672525	--
Rosa gallica	Flower				--
Rosa centifolia	Flower				--
Rosmarinus officinalis	Shoot				--
Rubus idaeus	Leaf	8450.0	50000.0	0.4345814175326895	--
Rubus idaeus	Fruit		14500.0	-0.4580948328310023	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Salix alba	Bark				--
Salvia officinalis	Shoot				--
Sambucus nigra	Leaf		2300.0	-1.5375729434269683	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Sambucus nigra	Flower				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Serenoa repens	Fruit	605.0	4640.0	-0.5751588917297177	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Solanum melongena	Fruit		110000.0	0.6757406260764346	--
Solanum tuberosum	Tuber	18000.0	33000.0		--
Solanum tuberosum	Leaf	21000.0	73000.0	1.3855153861295895	--
Sorbus aucubaria	Fruit		10000.0	-0.511521634559625	--
Spondias dulcis	Fruit		97600.0	0.5285201057575633	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Tamarindus indica	Seed				--
Tamarindus indica	Fruit	20000.0	25000.0	-0.33343229546421604	--
Taraxacum officinale	Root	17160.0	120000.0	-0.14497379746592196	--
Terminalia chebula	Fruit		2080.0	-0.6055528056020009	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Theobroma cacao	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Urtica dioica	Root				Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin.
Vaccinium vitis-idaea	Fruit		4000.0	-0.5827573701977885	--
Vaccinium macrocarpon	Fruit	4800.0	40000.0	-0.15534295636880713	--
Vaccinium myrtillus	Fruit	4000.0	50000.0	-0.03661673030520101	--
Viburnum opulus	Bark				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Viburnum opulus	Fruit		50000.0	-0.03661673030520101	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Vigna radiata	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Vitis vinifera	Fruit	300.0	3900.0	-0.5839446324584245	--
Vitis vinifera	Leaf				Bruneton, J. 1999. Pharmacognosy, Phytochemistry, Medicinal Plants. 2nd Ed. Lavoisier Publishing, Paris. 1119 pp.
Zea mays	Leaf	10000.0	17000.0	-0.9298021026280799	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Zizyphus jujuba	Fruit		4000.0	-0.5827573701977885	--